

CLAIMS

LISTING OF CLAIMS

This listing of the claims is presented without amendment for the convenience of the Examiner:

1. (Previously Presented) An arrangement with an injection valve comprising a nozzle body, which is disposed in a hole drilled in a cylinder head of an internal combustion engine, wherein the hole opens out into a combustion chamber of the internal combustion engine, wherein a bearing surface of the injection valve is pretensioned against a bearing surface of the cylinder head and the hole is sealed, wherein the nozzle body is disposed between the sealed bearing surfaces and the combustion chamber, and wherein

a sleeve is arranged between the nozzle body and the cylinder head in the hole, a pressure sensor is mounted in the hole and the sleeve is provided as a means of translation between the pressure in the combustion chamber and the pressure sensor.

2. (Previously Presented) An arrangement in accordance with claim 1, wherein a lower end of the sleeve is assigned to the combustion chamber, an upper end of the sleeve lies against the pressure sensor, and wherein the sleeve is disposed to allow movement in the hole.

3. (Previously Presented) An arrangement in accordance with claim 2, wherein the pressure sensor is retained on the injection valve and the upper end is embodied in the form of an annular flange, the flange is disposed between an annular surface of the cylinder head and the pressure sensor.

4. (Previously Presented) An arrangement in accordance with claim 3, wherein the pressure sensor is surrounded by a sealing ring, and the sealing ring is tensioned between the injection valve and the cylinder head and seals the hole.

5. (Previously Presented) An arrangement in accordance with claim 1, wherein the pressure sensor features a piezoelectric sensor element.

6. (Previously Presented) An arrangement in accordance with claim 1, wherein the sleeve is guided into the edge area of the hole adjoining the combustion chamber.

7. (Previously Presented) An arrangement in accordance with claim 1, wherein the sleeve is covered at least partly on its outer and/or inner surface by a coating which makes contamination more difficult.

8. (Previously Presented) An arrangement in accordance with claim 1, wherein the sleeve is covered at least partly on its outer and/or inner surface by a coating which reduces friction.

9. (Previously Presented) An arrangement in accordance with claim 1, wherein the pressure sensor has an annular form and surrounds the nozzle body.

10. (Previously Presented) An injection valve comprising:
a nozzle body, which is disposed in a hole drilled in a cylinder head of an internal combustion engine;
a bearing surface of the injection valve being pretensioned against a bearing surface of the cylinder head in such a way that the hole is sealed, wherein the nozzle body is disposed between the sealed bearing surfaces and the combustion chamber;
a sleeve arranged between the nozzle body and the cylinder head in the hole; and
a pressure sensor mounted in the hole, wherein the sleeve is provided as a means of translation between the pressure in the combustion chamber and the pressure sensor.
11. (Previously Presented) An arrangement in accordance with claim 10, wherein a lower end of the sleeve is assigned to the combustion chamber, an upper end of the sleeve lies against the pressure sensor, and wherein the sleeve is disposed to allow movement in the hole.
12. (Previously Presented) An arrangement in accordance with claim 11, wherein the pressure sensor is retained on the injection valve and the upper end is embodied in the form of an annular flange, the flange is disposed between an annular surface of the cylinder head and the pressure sensor.
13. (Previously Presented) An arrangement in accordance with claim 10, wherein the pressure sensor is surrounded by a sealing ring, and the sealing ring is tensioned between the injection valve and the cylinder head and seals the hole.
14. (Previously Presented) An arrangement in accordance with claim 10, wherein the pressure sensor features a piezoelectric sensor element.
15. (Previously Presented) An arrangement in accordance with claim 10, wherein the sleeve is guided into the edge area of the hole adjoining the combustion chamber.

16. (Previously Presented) An arrangement in accordance with claim 10, wherein the sleeve is covered at least partly on its outer and/or inner surface by a coating which makes contamination more difficult.

17. (Previously Presented) An arrangement in accordance with claim 10, wherein the sleeve is covered at least partly on its outer and/or inner surface by a coating which reduces friction.

18. (Previously Presented) An arrangement in accordance with claim 10, wherein the pressure sensor has an annular form and surrounds the nozzle body.